04-01-04.

Date of Deposit: March 31, 2004

Attorney Docket No.: 20349-556

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

Kappenberger, et al.

SERIAL NUMBER:

10/700,999

EXAMINER:

Not Yet Assigned

FILING DATE:

November 3, 2003

ART UNIT:

3762

For:

METHODS OF ANALYZING ATRIAL FIBRILLATIONS

# **Mail Stop IDS**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### TRANSMITTAL LETTER

Transmitted herewith for filing in the present application are the following documents:

- 1. Information Disclosure Statement (2 pages), in duplicate;
- 2. Modified Form 1449/PTO (1 page), in duplicate;
- 3. Copies of Cited Reference C1-13; and
- 4. Return Postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 542-6000, Boston, Massachusetts.

The Commissioner is authorized to charge any fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 20349-556. A duplicate copy of this transmittal letter is enclosed herewith.

Respectfully submitted,

Ivor R. Elrifi, Reg. No. 39,529

Christina K. Stock, Reg. No. 45,899

Attorneys for Applicants

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Customer No. 30623

Date: March 31, 2004

TRA 1903324v1

Express Mail Label No.: EV 328708089 US Attorney Docket No.: 20349-556

Pare of Deposit: March 31, 2004

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Kappenberger, et al.

SERIAL NUMBER: 10/700,999 EXAMINER: Not Yet Assigned

FILING DATE: November 3, 2003 ART UNIT: 3762

FOR: METHODS OF ANALYZING ATRIAL FIBRILLATIONS

### **MAIL STOP IDS**

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

### INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby make of record the documents listed on the attached modified Form PTO-1449, as well as copies of the listed documents.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action based on the merits in the above-identified case. Accordingly, no fee or certification is believed required.

It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and sign the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

APPLICANT:

Kappenberger, et al.

U.S.S.N.:

10/700,999

Notwithstanding any statements by the Applicants, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested.

Please charge any fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 20349-556.

Respectfully submitted,

Ivor R. Elrifi, Reg. No. 39,529

Christina K. Stock, Reg. No. 45,899

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Page 1 of 1 Attorney Docket No.: 20349-556

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| Madried Form 1449/PTO  INFORMATION DISCLOSURE |                 |                                                                                    |                                                  | Application Number                                                                | 10/700,                | 10/700,999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |  |  |  |
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| (use as many sheets as necessary)             |                 |                                                                                    |                                                  | Examiner Name                                                                     | Not Yet                | Not Yet Assigned                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |  |  |  |
|                                               |                 |                                                                                    | cessary)                                         | Attorney Docket Number                                                            | 20349-                 | 20349-556                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |  |  |  |
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| Exam<br>nitials                               | Cite<br>No.     | U.S. Patent<br>Document No.                                                        | Issue Date                                       | Name of Patentee(s) or Applicant(s)                                               | Class                  | Sub<br>Class                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Filing Date If Appropriate |  |  |  |
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| ne en                                         |                 |                                                                                    |                                                  | FOREIGN PATENT DOCUMENTS                                                          |                        | 1.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |  |  |  |
| Exam Cite No.                                 |                 | Foreign Patent Document Office Number                                              |                                                  | Name of Patentee(s) or Applicant(s)                                               | Date of<br>Publication |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Translation<br>Yes No      |  |  |  |
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|                                               | C1              | Blanc, et al., IEEE Trans. Biomed. Eng., 48(11):1229-1237 (2001).                  |                                                  |                                                                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |  |  |  |
|                                               | C2              | Buckingham, et al., Pacing Clin. Electrophysiol., 20(Pt. I):909-915 (1997).        |                                                  |                                                                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |  |  |  |
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|                                               | C4              | Fuster, et al., Circ., 104:2118-2150 (2001).                                       |                                                  |                                                                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |  |  |  |
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|                                               | 07              | Nygren, et al., <i>Ann. Biomed. Eng.</i> , 28(8):951-957 (2000).                   |                                                  |                                                                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |  |  |  |
|                                               | C8              | Nygren, et al., A                                                                  | nn. bioineu.                                     | Pruvot, et al., Pacing Clin. Electrophysiol., 17(Pt. II):2201-2206 (1994).        |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |  |  |  |
|                                               | <del></del>     |                                                                                    |                                                  | Electrophysiol., 17(Pt. II):2201-2206 (19                                         | 94).                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |  |  |  |
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|                                               | C8<br>C9        | Pruvot, et al., Pa<br>Van Gelder, et a                                             | ncing Clin. E<br>l., Arch. Inte                  |                                                                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |  |  |  |
|                                               | C8<br>C9<br>C10 | Pruvot, et al., Pa<br>Van Gelder, et a                                             | acing Clin. E<br>I., Arch. Inte<br>ing Clin. Ele | ern. Med., 156(22):2585-2592 (1996).<br>ectrophysiol., 21(Pt. II):2366-2371 (199  |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |  |  |  |

A copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. \_\_\_\_\_\_, filed \_\_\_\_\_\_, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

|   | Examiner<br>Signature | Date<br>Considered |  |
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| ı |                       |                    |  |

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.